



Windows &amp; Doors

## Lammin® ELE-PO1 and PO2 terrace doors



Lammin Ele-PO1 and PO2 thermal-type terrace doors are outward-opening doors tailored to the needs of the customer, with frame dimensions available in 10-mm increments. In addition to the dimensions and door model, the customer selects the best frame depth, colour, and fittings for the application from among several alternatives provided by Lammin.

The doors are suitable for new structures and repair/renovation projects alike. Providing very good heat insulation, the structure of Lammin doors is designed for use in entrance doors to flats or heated storage spaces. The height of the glass panel is scaled to the frame height of the adjacent window. The dimensions have to take into consideration whether the adjacent window is active or instead inactive.

If the width of the door is 990 mm, the height can be as great as 2,290 mm. If the door is wider but still not more than 1,190 mm wide, the height can be as great as 2,090 mm. When used as a double door, a 1,790-millimetre-wide door can be up to 2,290 mm high. If the door is wider but not wider than 2,460 mm, the height can be as great as 2,090 mm. The order and order confirmation with product charts cover only the product quantities and quality, surface treatments, and equipment mentioned in them.

### Raw wood material and surface finishing of wooden parts

All wooden parts of Lammin thermal exterior doors are made from carefully selected Finnish pine, with all visible parts finger-jointed and laminated to be unwarped and branchless.

- The frame is a 54-millimetre-thick frame with double rebates, in frame widths 121, 135, 165, and 190 mm.
- The door leaf is made of glued, finger-jointed laminated pine. Door thickness is 70 mm.

Frames and door leaves are painted with an opaque coating. The colour tone is selected from the RR colour chart. The standard colour for the white paint is NCS S 0502-Y.

The threshold is 38 mm with double rebate and thermal break, and the front edge of its aluminium profile is equipped with 'snap-in' attachment for mounting of the flashing. Alternatively, a 25-mm threshold with one rebate/strip may be used. The threshold is painted with a translucent coating.

### Glazing and the unglazed part

The insulation glasses of the door are FI-approved and 3D4 insulation glass elements wherein the innermost and outermost glass is low-emissivity glass. Argon gas filling is used between all the panes.

The door surfaces are HDF boards both inside and outside.

The pattern on the outer surface varies in accordance with the product in the range. The warm and sturdy thermal-door structure is composed of veneer and aluminium sheets on both sides, with a polystyrene sheet as insulation. The heat-insulation value is 0.50 W/m<sup>2</sup>K at the insulation and 0.72 W/m<sup>2</sup>K at the panes. The overall U value of the door complies with the requirement of 1.0 W/m<sup>2</sup>K.

### Fittings

The hinges (3248-110TMKSS) are anti-vandalism hinges that are adjustable vertically and horizontally (3 pcs, delivered as standard). The surface treatment for doors painted white is white, and for other door colours it is clear. The locking choice available for the door is lever bolt, lockable lever bolt, multifunctional closing mechanism, or LC102 lock case. The doors have a handle-operated stay fastener as standard equipment with the lever handle.

The fitting range also includes security-lock cases. The inactive portion of a double door is equipped with barrel bolts.

Alternatively, all locking options can be selected with surface fittings and lock cases that are pre-installed at the factory.

### Draught exclusion (weather strips)

Double weather strip with a special seal whose structure continues uninterrupted around the door corners. The seal is white for white doors and black in others. The threshold is equipped with wear-proof shaped rubber seal.

### U value

At the insulation, 0.50 W/m<sup>2</sup>K; at the pane, 0.72 W/m<sup>2</sup>K. The overall U value of the glazed door fulfils the 1.0 W/m<sup>2</sup>K requirement. The overall U value of the unglazed door is 0.84 W/m<sup>2</sup>K.

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